

CLAIMS

Amend the claims as follows.

1. (Currently Amended) An FM transmitter comprising:

a processor configured to receive text data ~~associated with~~ descriptive of an audio signal, to convert the text data into digitally encoded speech, and to encode the audio signal and the digitally encoded speech according to an FM standard into an FM digital signal;

a converter configured to convert the FM digital signal into an analog FM signal; and a transmitter configured to transmit the analog FM signal.

2.-3. (Canceled)

4. (Previously Presented) The FM transmitter according to claim 1, further comprising:

a band-pass filter configured to filter the analog FM signal to exclude signal components outside of a range of frequencies according to an RDS standard.

5. (Canceled)

6. (Previously Presented) The FM transmitter according to claim 1, wherein: the processor is configured to time-division multiplex the digitally encoded speech and the audio signal to generate the FM digital signal.

7. (Previously Presented) The FM transmitter according to claim 6, wherein the processor is a programmed processor comprising code to control the processor to convert the text data into the digitally encoded speech.

8. (Previously Presented) The FM transmitter according to claim 6, wherein: the processor is configured to receive a digital audio signal as the audio signal; and the processor comprises multiplexing circuitry to time-division multiplex the digital audio signal and the digitally encoded speech to generate the FM digital signal.

9. (Previously Presented) The FM transmitter according to claim 1, wherein: an auxiliary audio device is configured to generate the audio signal; and the processor is a control processor of the auxiliary audio device.

10. (Previously Presented) The FM transmitter according to claim 9, wherein the auxiliary audio device is a device selected from a group consisting of a CD player, a CD-MP3 player, a universal satellite receiver, and a digital audio broadcast receiver.

11. (Previously Presented) The FM transmitter according to claim 10, further comprising a wireless remote control receiver coupled to the auxiliary audio device, the wireless remote control receiver to receive commands to control the auxiliary audio device and to receive commands to select text data to be transmitted in the FM signal.

12. (Previously Presented) The FM transmitter according to claim 1, further comprising:

a housing to which the processor, the converter, and the transmitter are mounted, the housing comprising:

an audio input to receive the audio signal from an auxiliary audio device; and a data input to receive the text data from the auxiliary audio device; wherein the housing is physically distinct from the auxiliary audio device.

13. (Previously Presented) A transceiver, comprising:

a radio data system (RDS) modulator configured to generate a modulated text data signal in response to a broadcast audio transmission including text data and an audio signal, the text data being descriptive of the audio signal;

a frequency modulation (FM) encoder configured to generate an FM encoded audio signal in response to the audio signal;

a signal combiner configured to combine the modulated text data signal and the FM encoded audio signal into a combined signal; and

an FM transmitter configured to transmit the combined signal.

14. (Previously Presented) The transceiver of claim 13 further comprising: a satellite audio receiver comprising a processor; and at least one of the RDS modulator, the FM encoder, and the signal combiner are implemented in the processor of the satellite audio receiver.

15. (Previously Presented) The transceiver of claim 13, further comprising: a processor configured to convert the text data into digitally encoded speech and to encode the digitally encoded speech and the audio signal into a combined FM digital audio signal; and a converter configured to convert the combined FM digital audio signal into a combined FM analog audio signal.

16. (Currently Amended) The transceiver of claim 15, wherein the processor includes a signal combiner is configured to ~~time-domain~~ time-division multiplex the digitally encoded speech and the audio signal to generate the combined FM digital audio signal.

17. (Previously Presented) The transceiver of claim 13, further comprising: a housing in which the receiver and at least one of the RDS modulator, the FM encoder, the signal combiner, and the FM transmitter are mounted.

18. (Previously Presented) The transceiver of claim 17, wherein each of the RDS modulator, the FM encoder, the signal combiner, and the FM transmitter are mounted in the housing.

19. (Previously Presented) A handheld audio player, comprising:
a storage device;

a processor configured to receive an audio signal and text data descriptive of the audio signal from the storage device, to generate a modulated text data signal from the text data, to encode the audio signal into an FM encoded audio signal, to combine the modulated text data and the FM encoded audio signal into a combined audio signal, and to convert the combined audio signal into an FM signal; and

a frequency modulation (FM) transmitter configured to transmit the FM signal.

20.-21. (Canceled)

22. (Previously Presented) The handheld audio player of claim 19, wherein:
the handheld audio player is one of a compact disc (CD) player, a flash player, an MP3 player, and a hard disk drive (HDD) jukebox.

23. (Previously Presented) The handheld audio player of claim 19,
wherein the processor is configured to convert the text data into digitally encoded speech and to combine the digitally encoded speech and the audio signal into a combined digital audio signal;

wherein a converter is configured to convert the combined audio signal into a combined analog audio signal; and

wherein the FM transmitter is configured to transmit the combined analog audio signal.

24. (Currently Amended) The handheld audio player of claim 23, wherein the processor ~~is includes a signal combiner~~ configured to ~~time domain~~ ~~time-division~~ multiplex the digitally encoded speech and the audio signal to generate to combined digital audio signal.